

Fig 1.

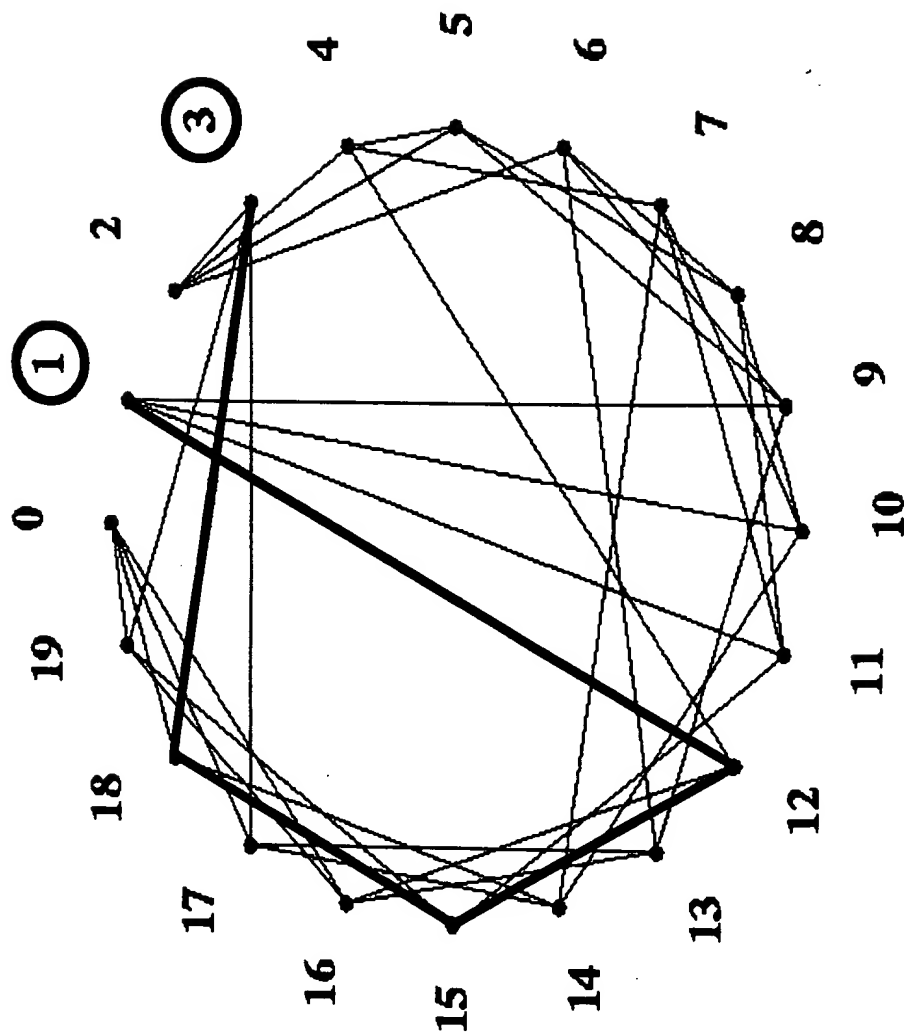


Fig 2

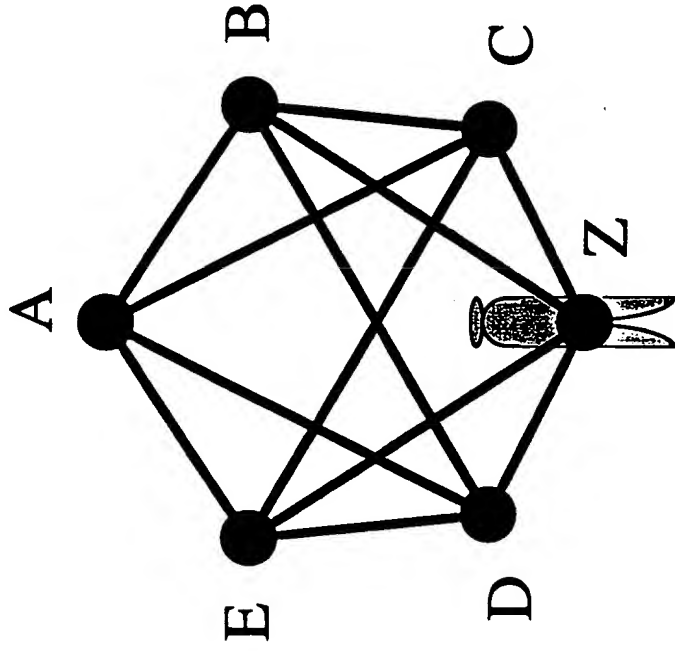
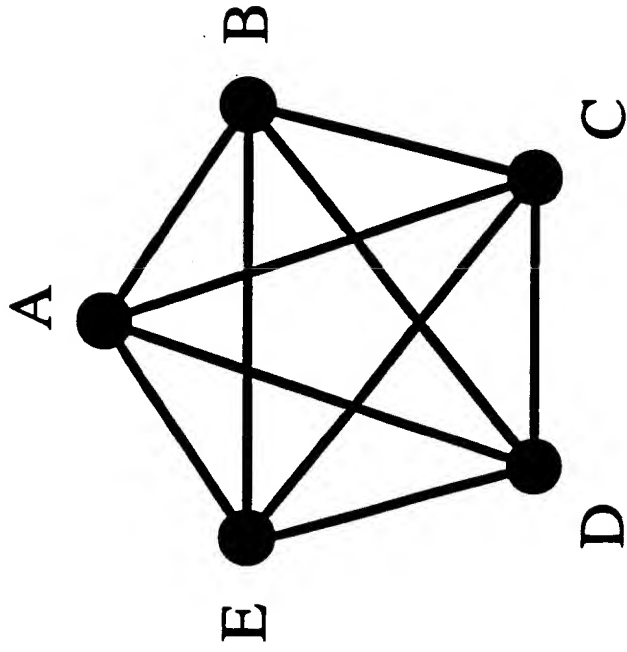


Fig 3B

Fig 3A

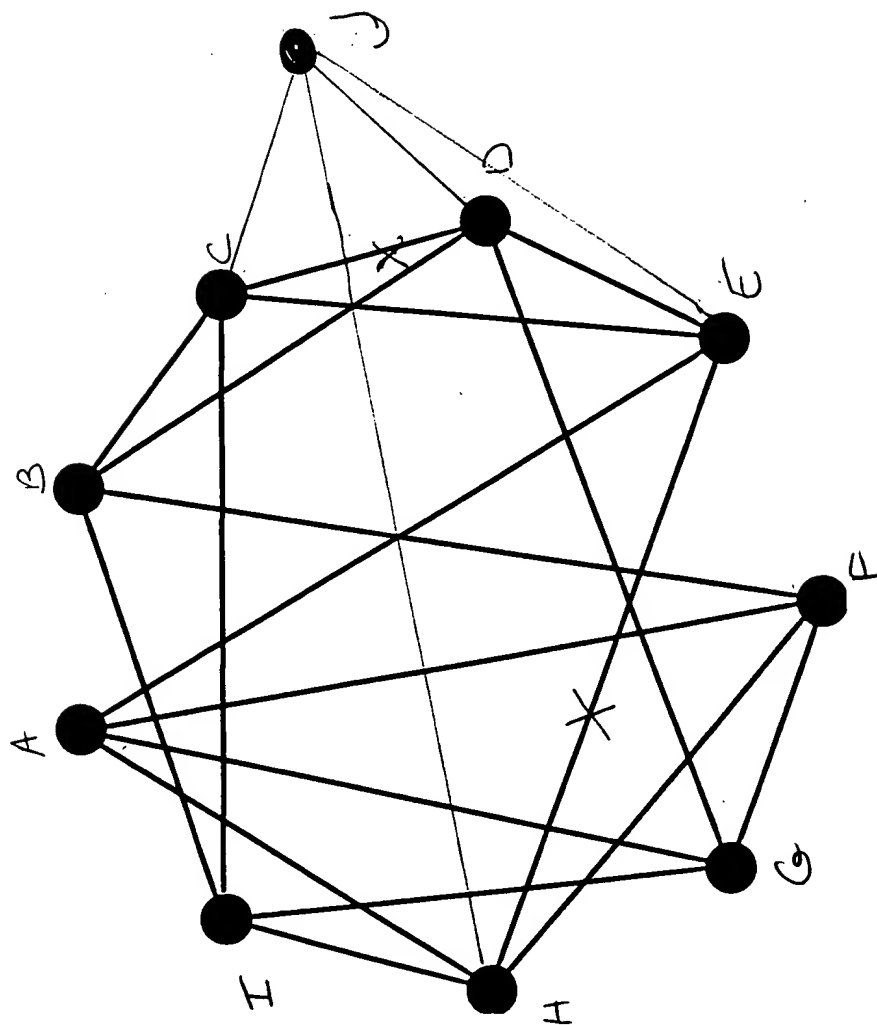


Fig 4A

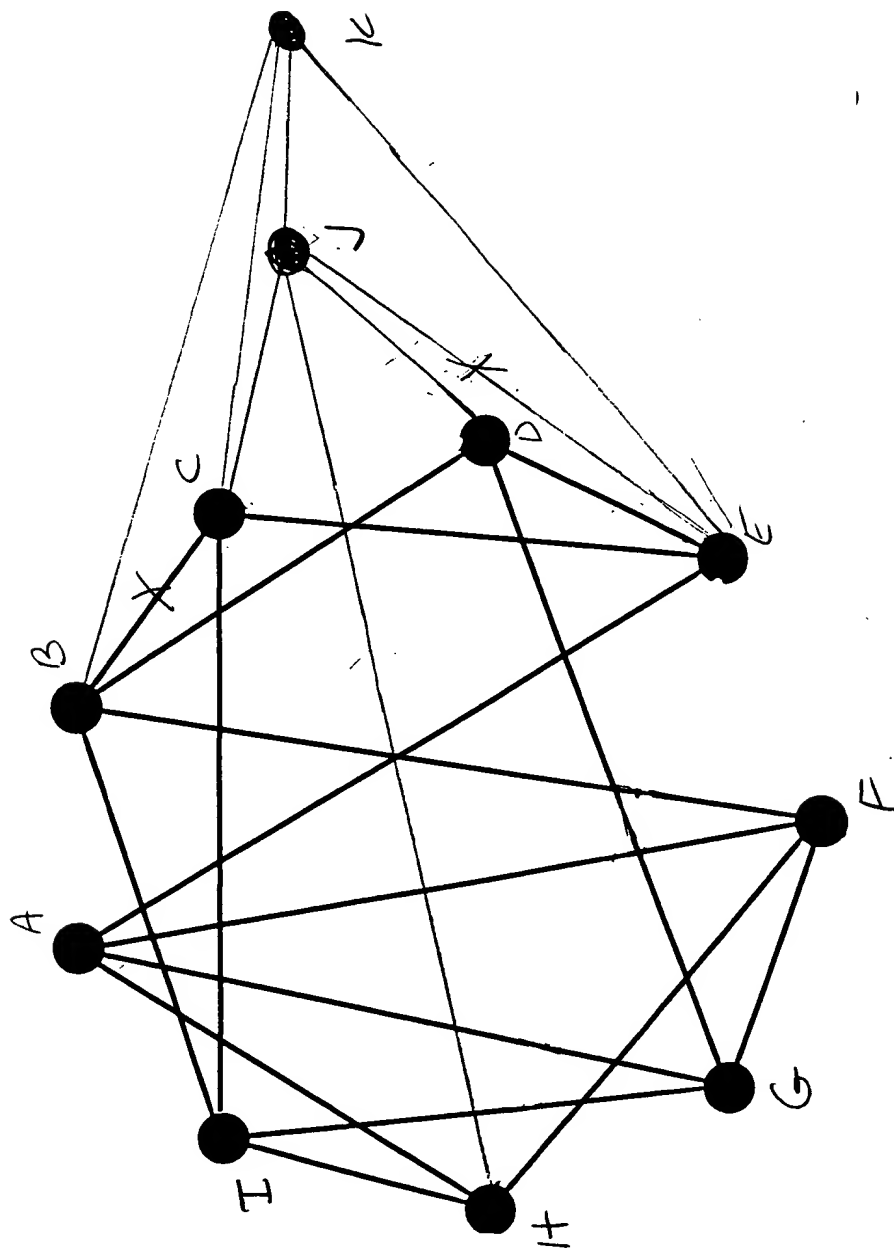


Fig 4B

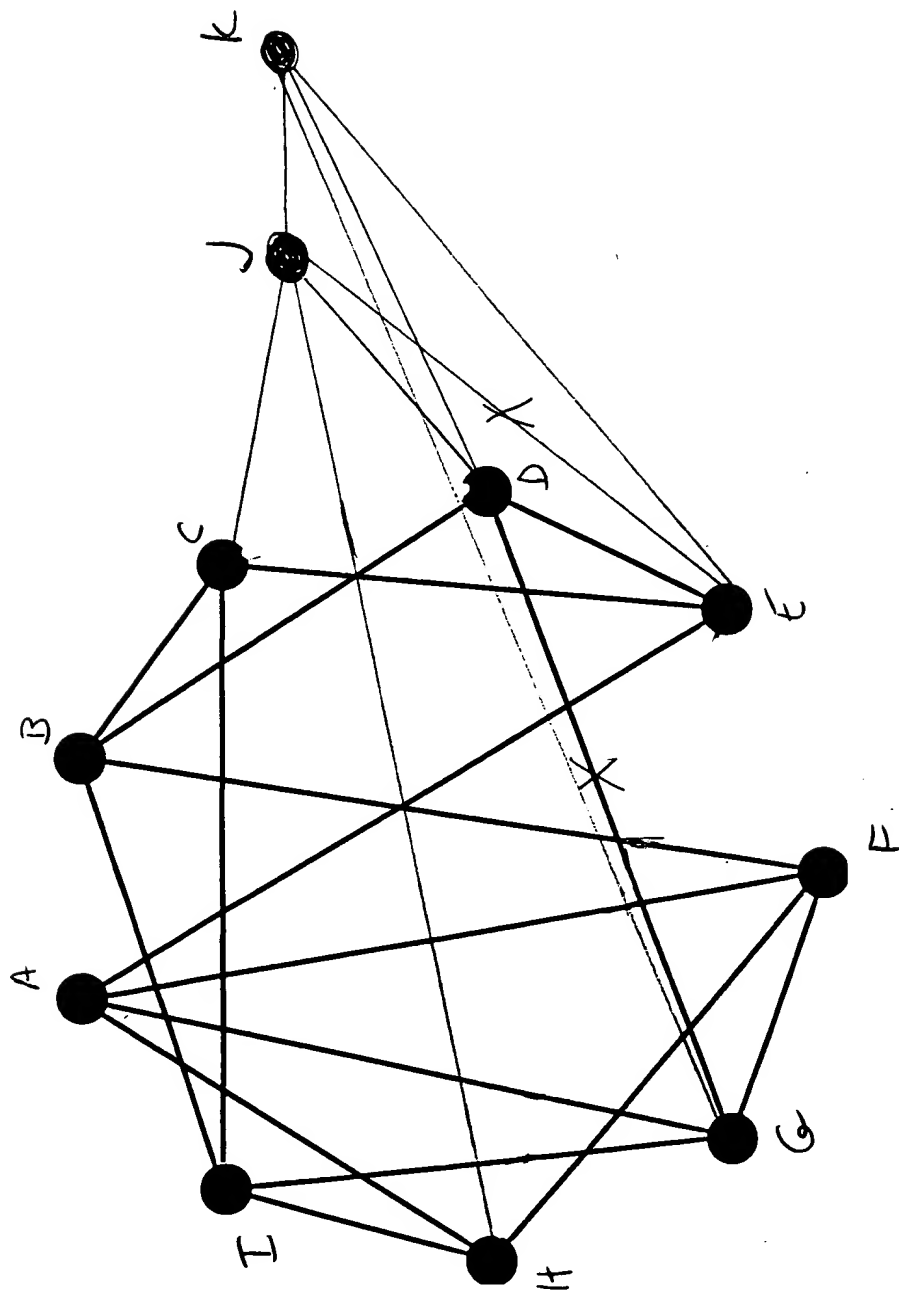


Fig 4C

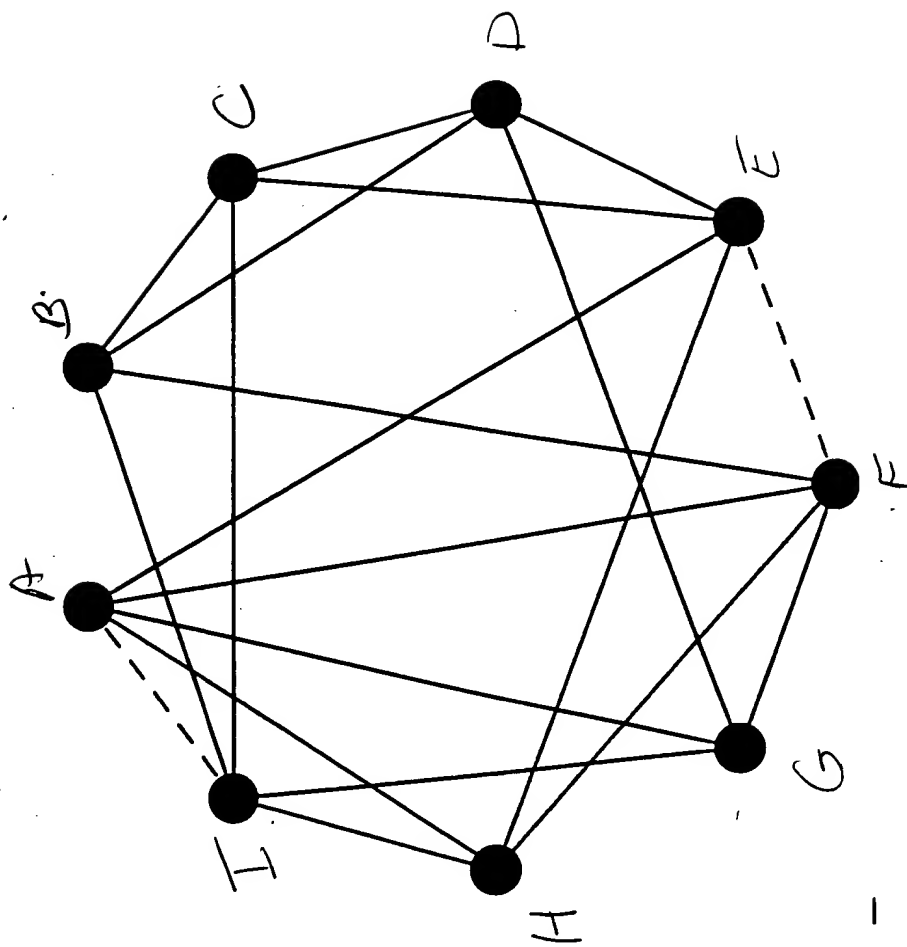


Fig 5A

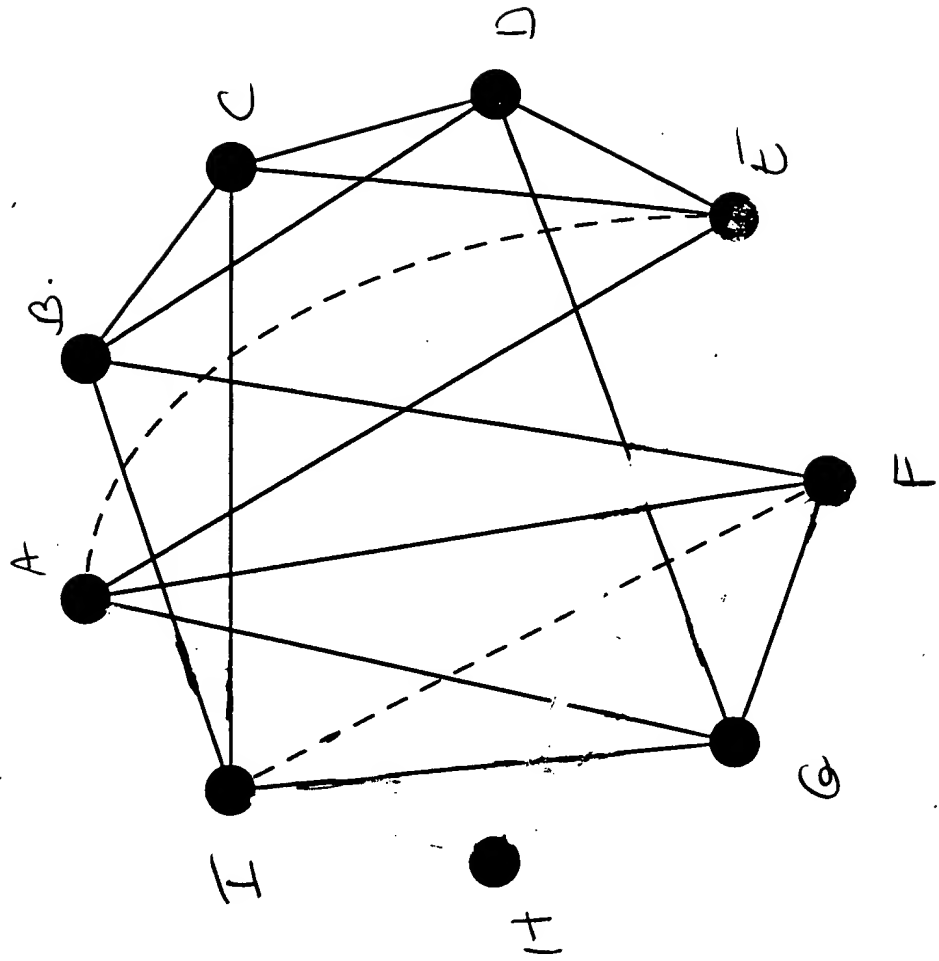


Fig 5B



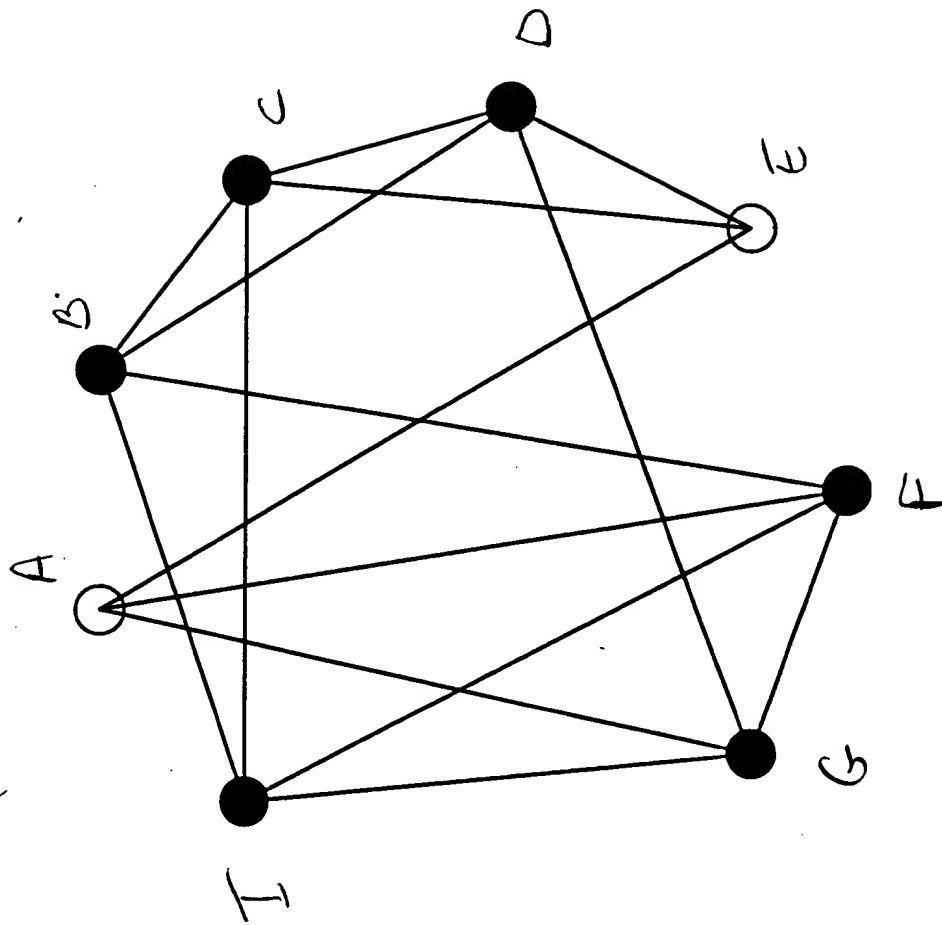


Fig 5C

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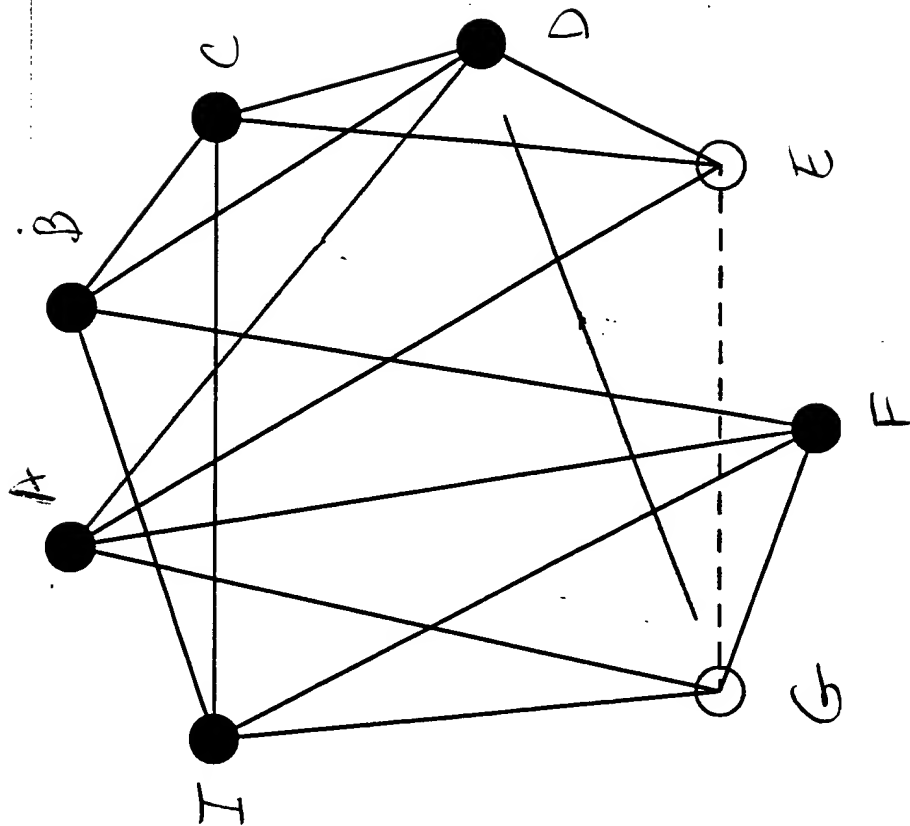


Fig 5D

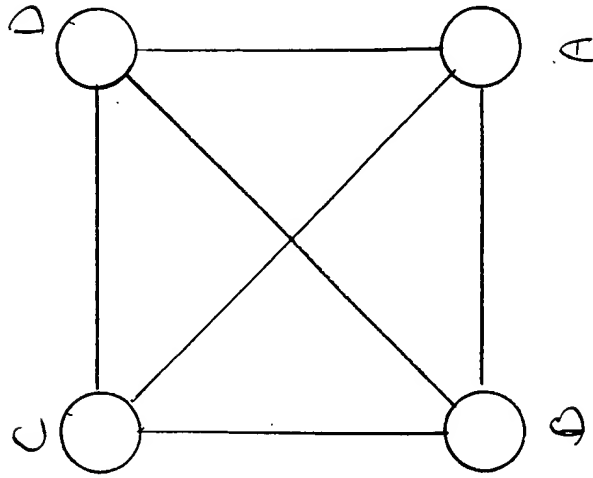


Fig 5E

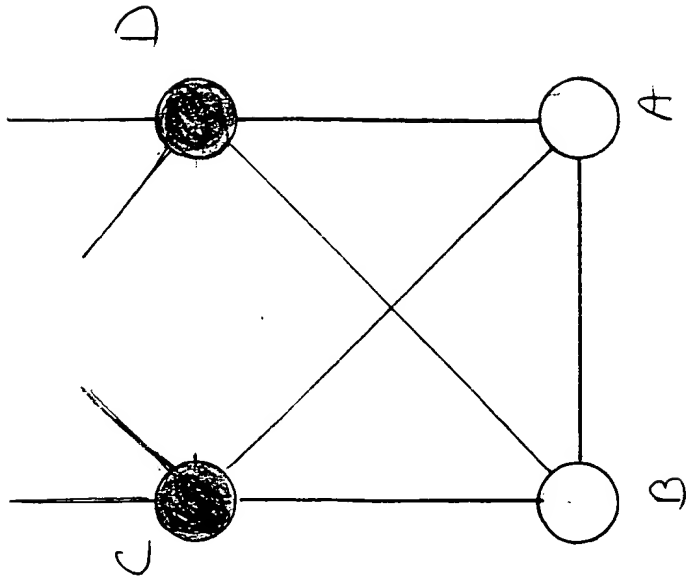


Fig 5F



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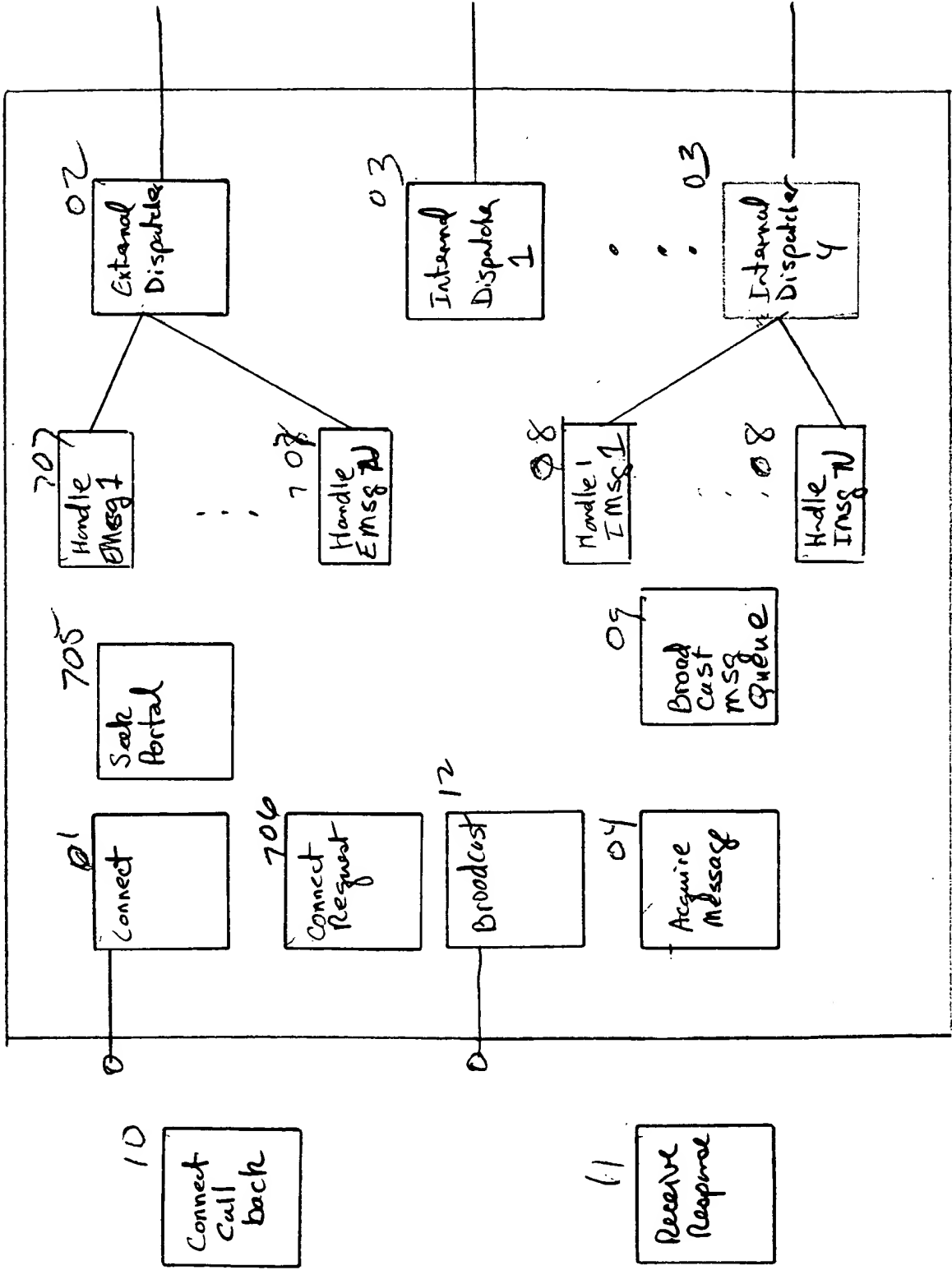


Figure 7

p2

connect

(Channel Type,  
Channel Instance,  
Connect Aux Info)

Open  
Call in Port

Set  
connect time

Seek Portal  
Computer  
(channel type  
channel Instance)

success

Return  
(False)

contacts  
= 0

Achieve  
Connection

Install External  
Dispatcher

Install External  
Dispatcher

Connect Request

Return  
(True)

Fig 8

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P4  
Quest

Channel type  
channel Instance

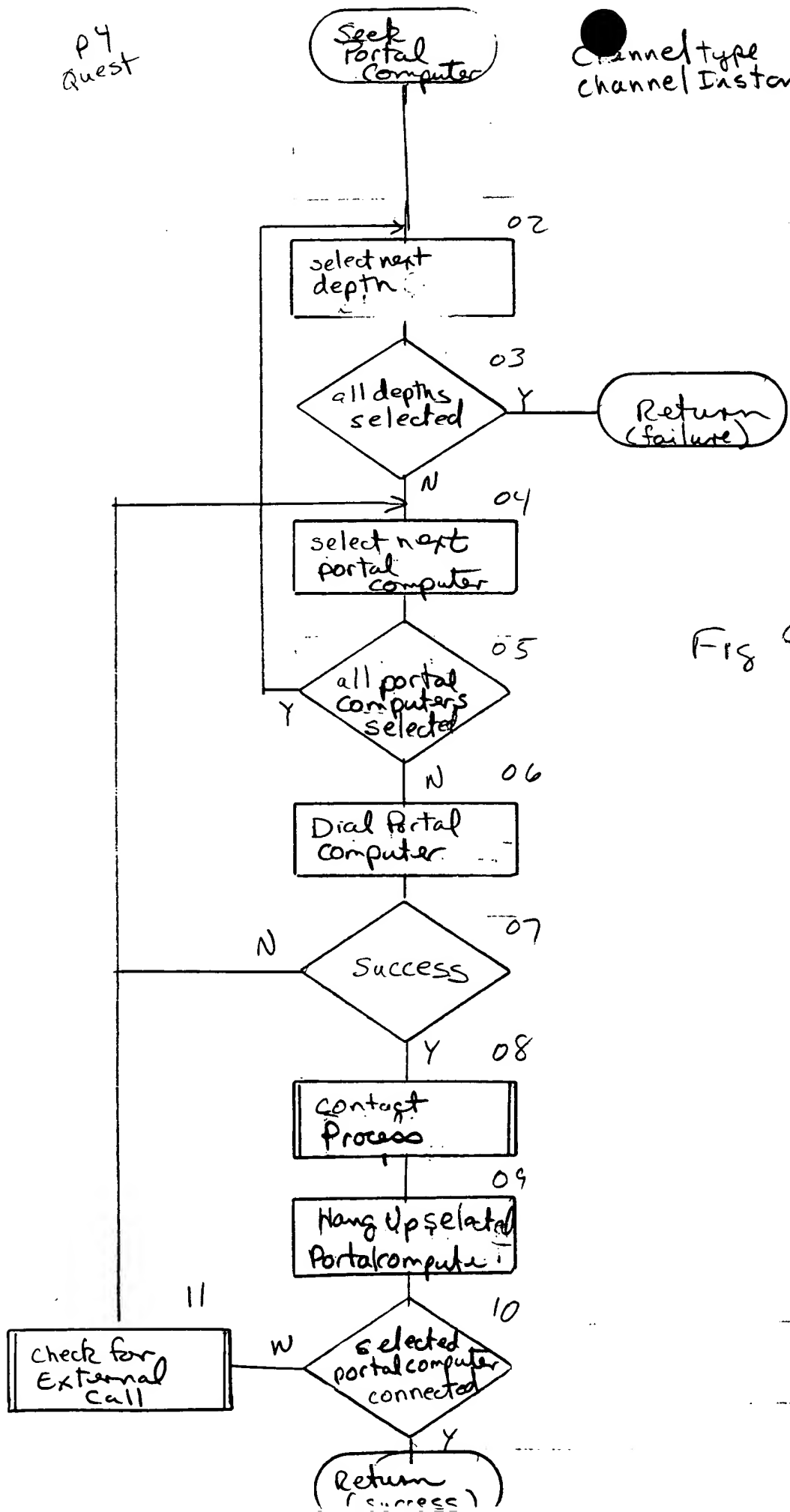


Fig 9

09629570.073100

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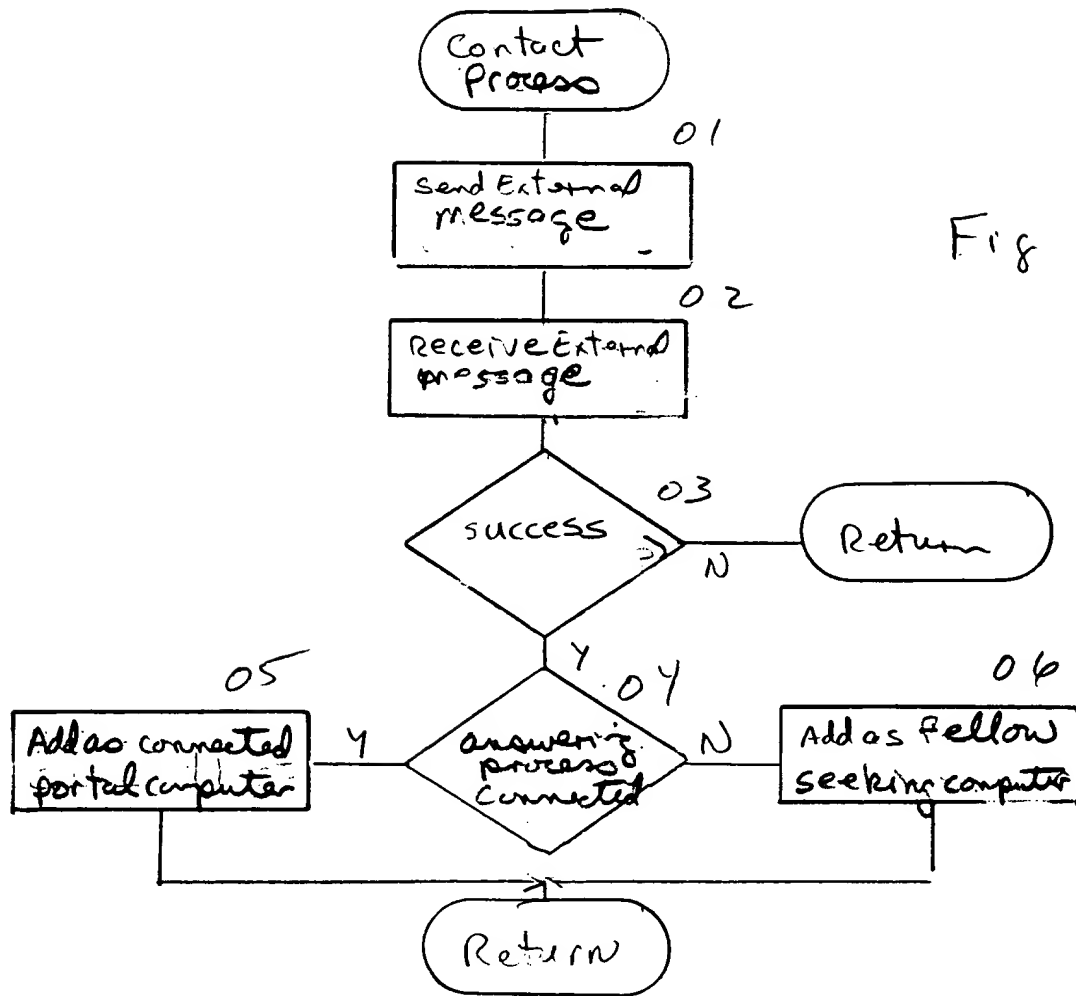
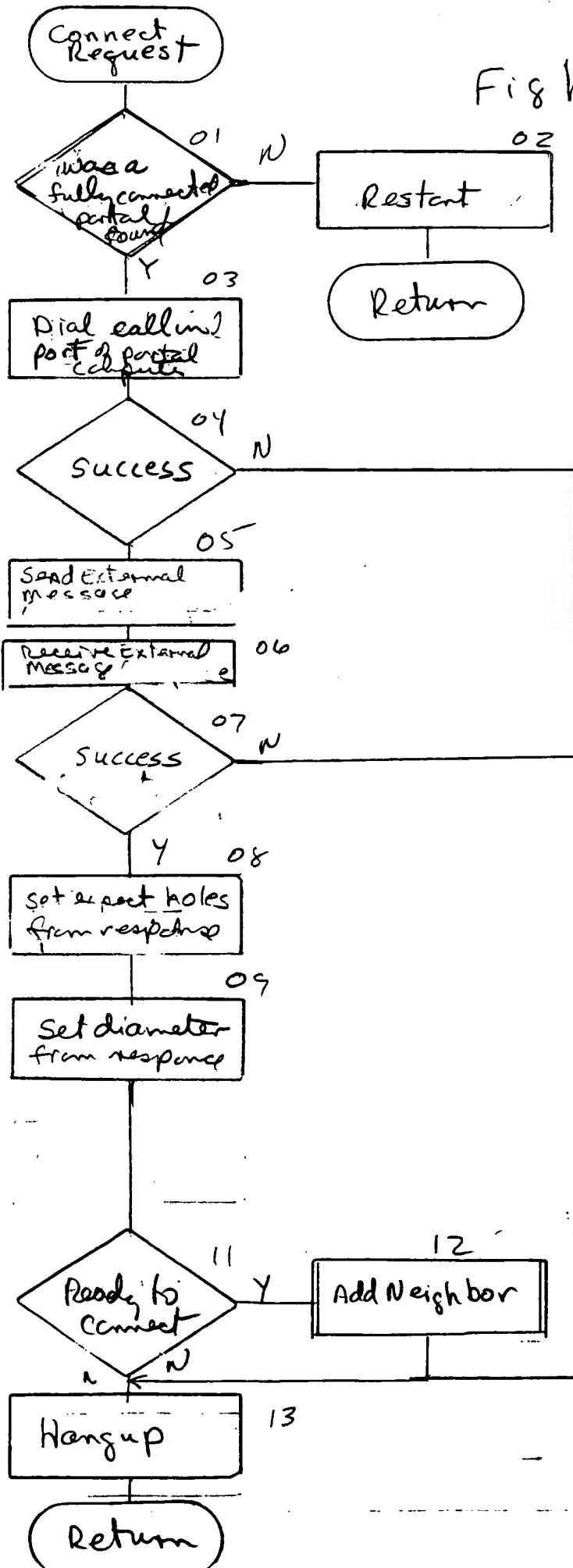


Fig 10



p23

Fig 11



09629570-073100

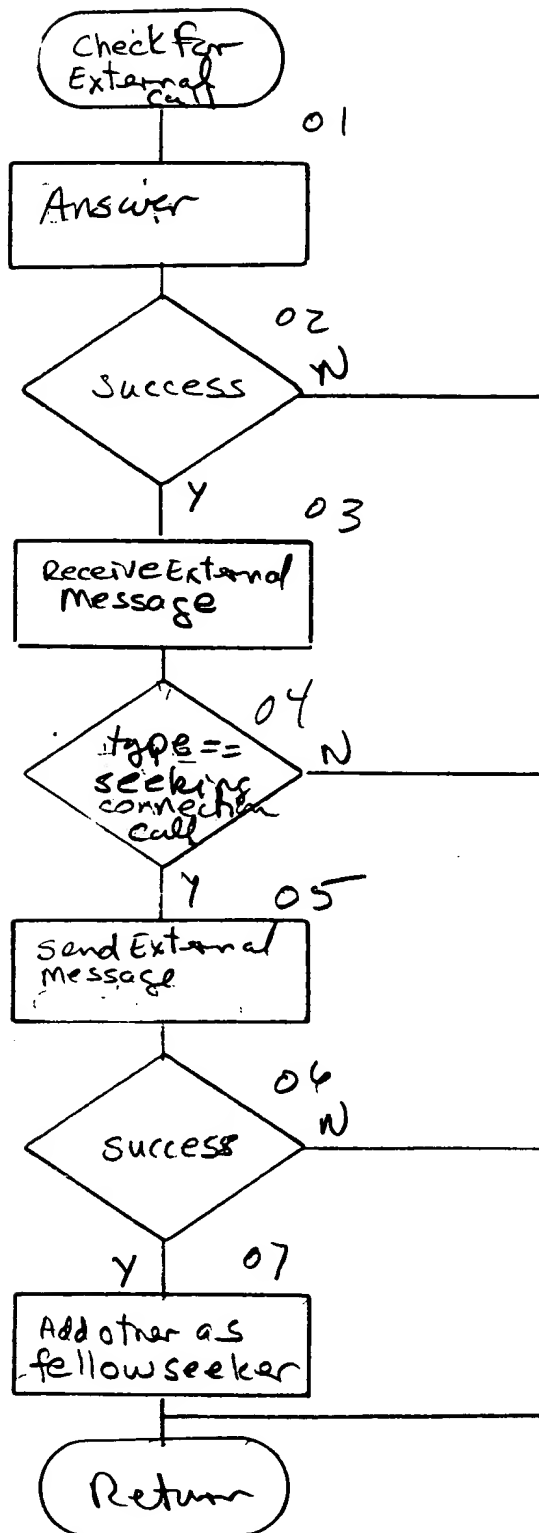
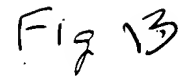
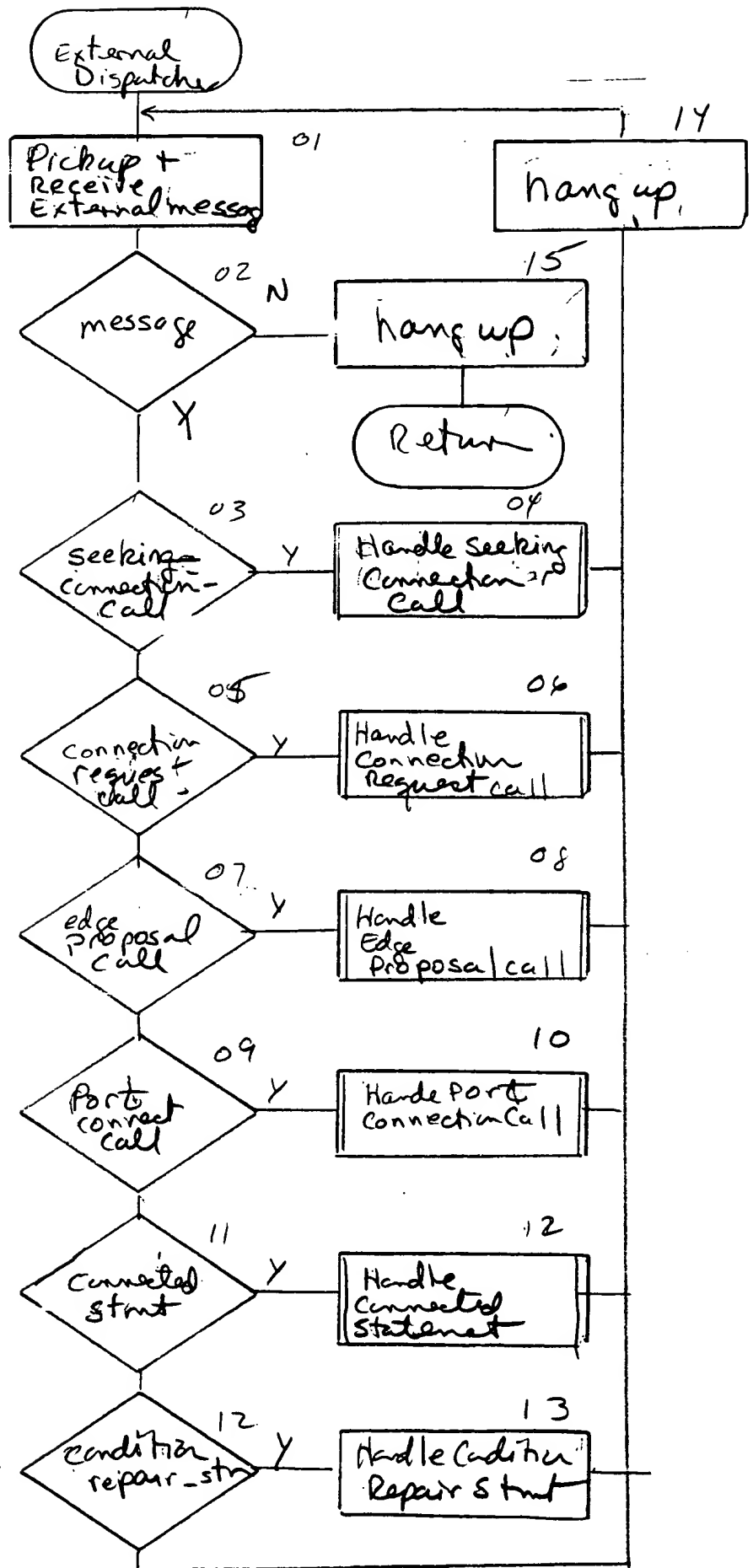


Fig 12

[illegible]

p7

Fig 14



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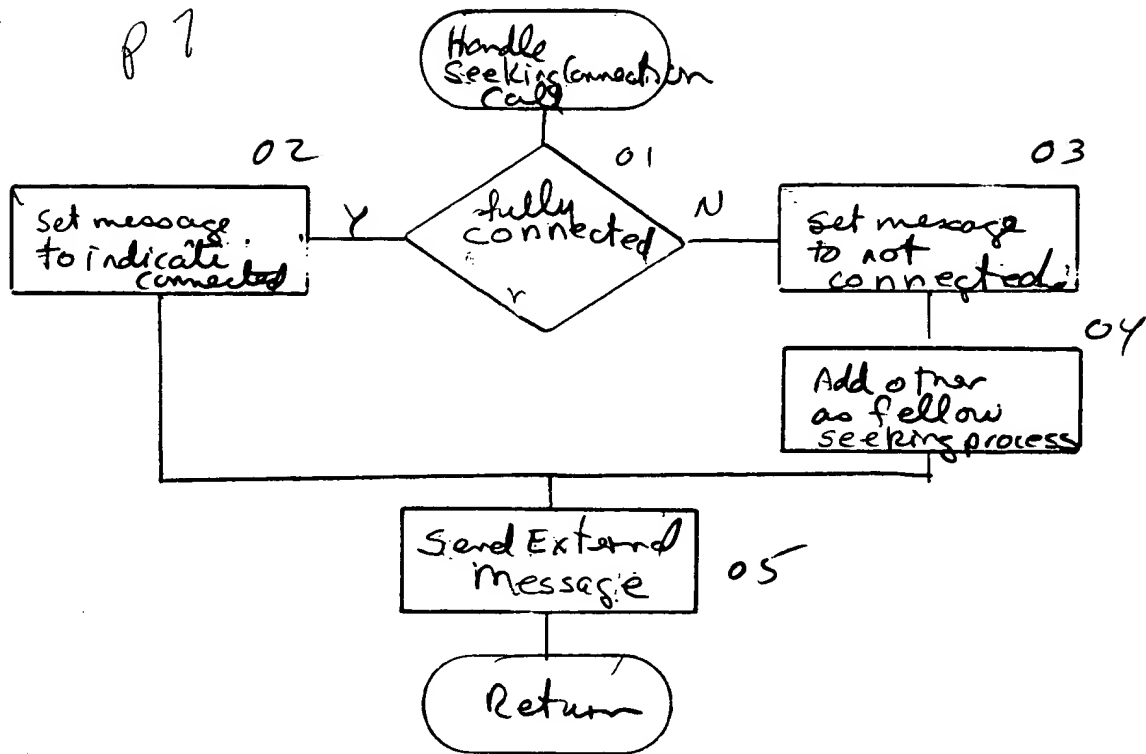


Fig 17

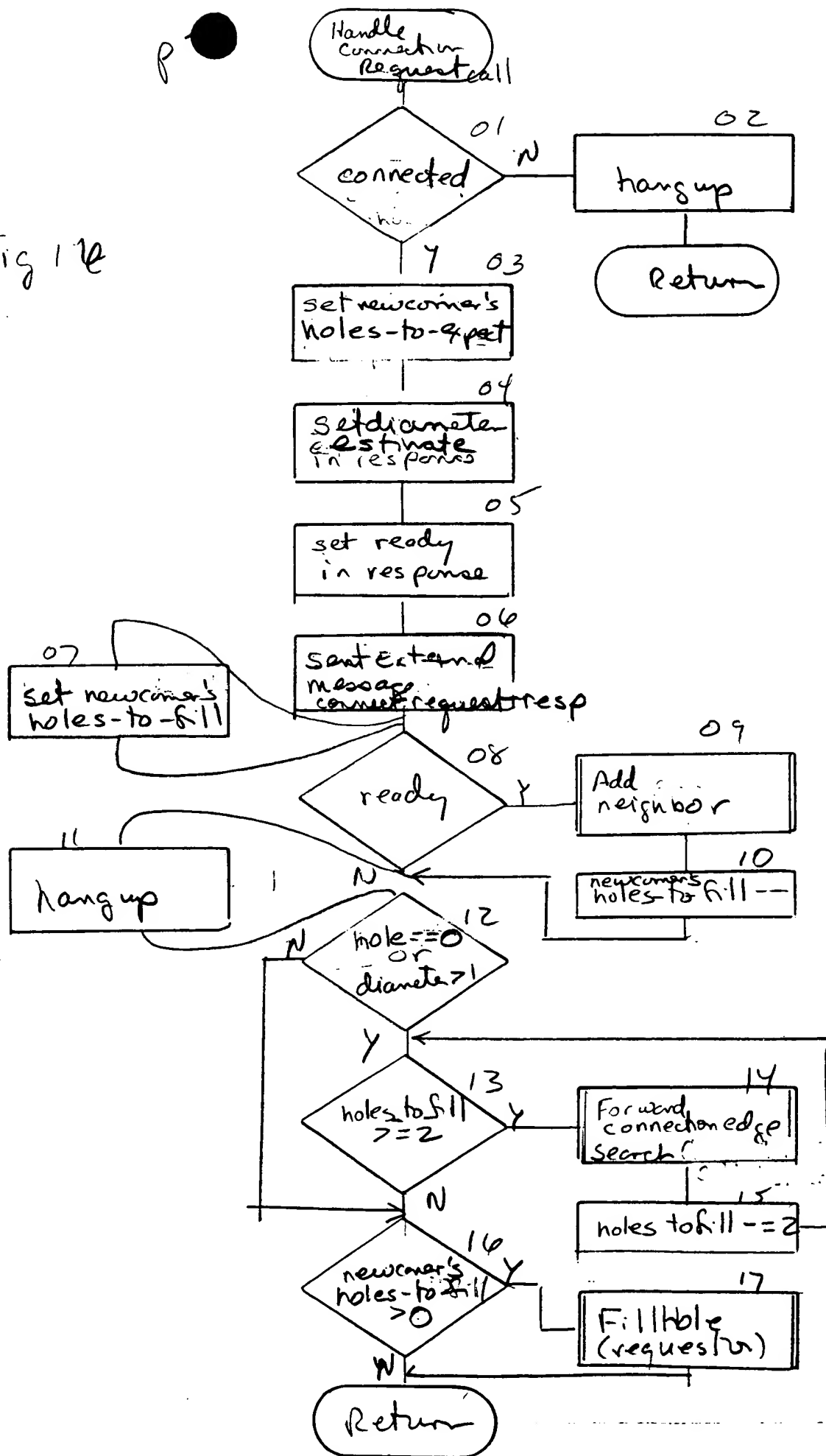
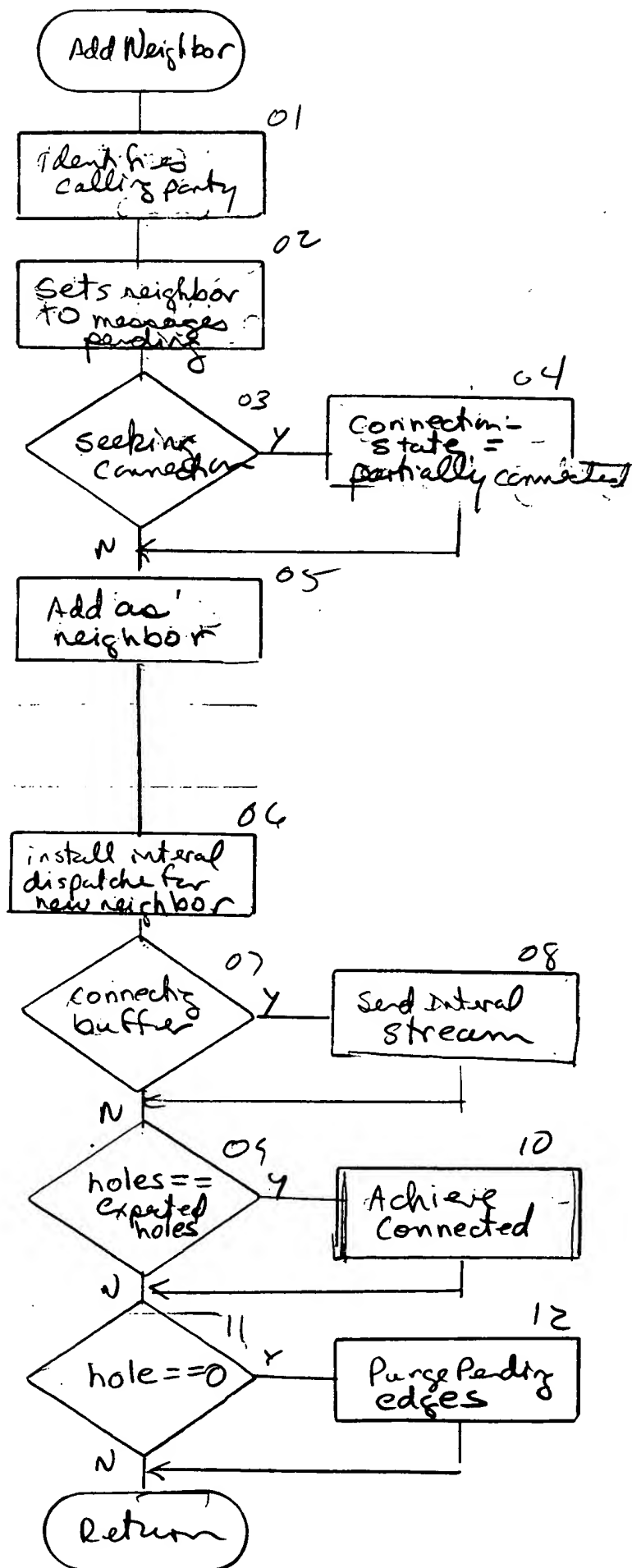
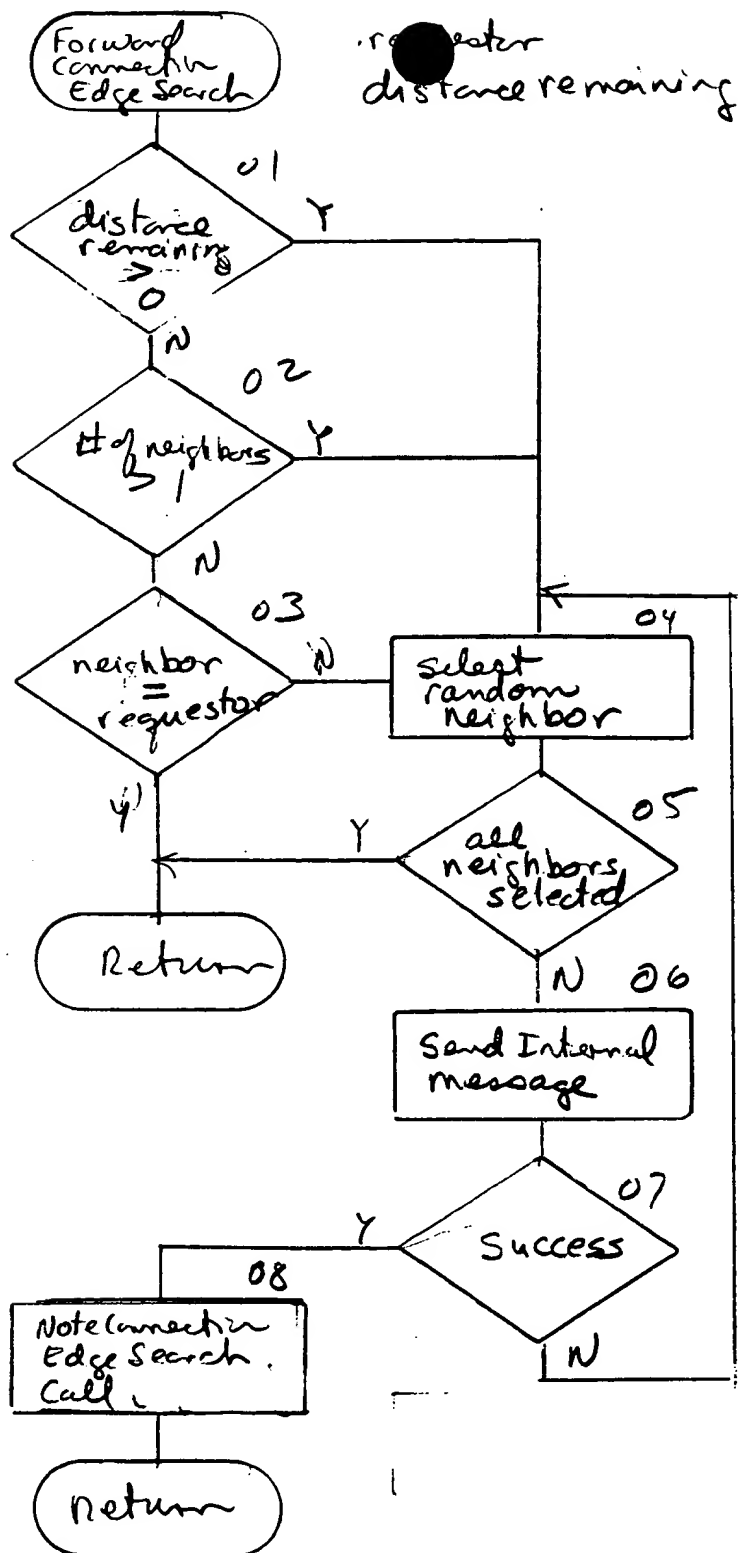


Fig 17



096750-0707100

Fig 18





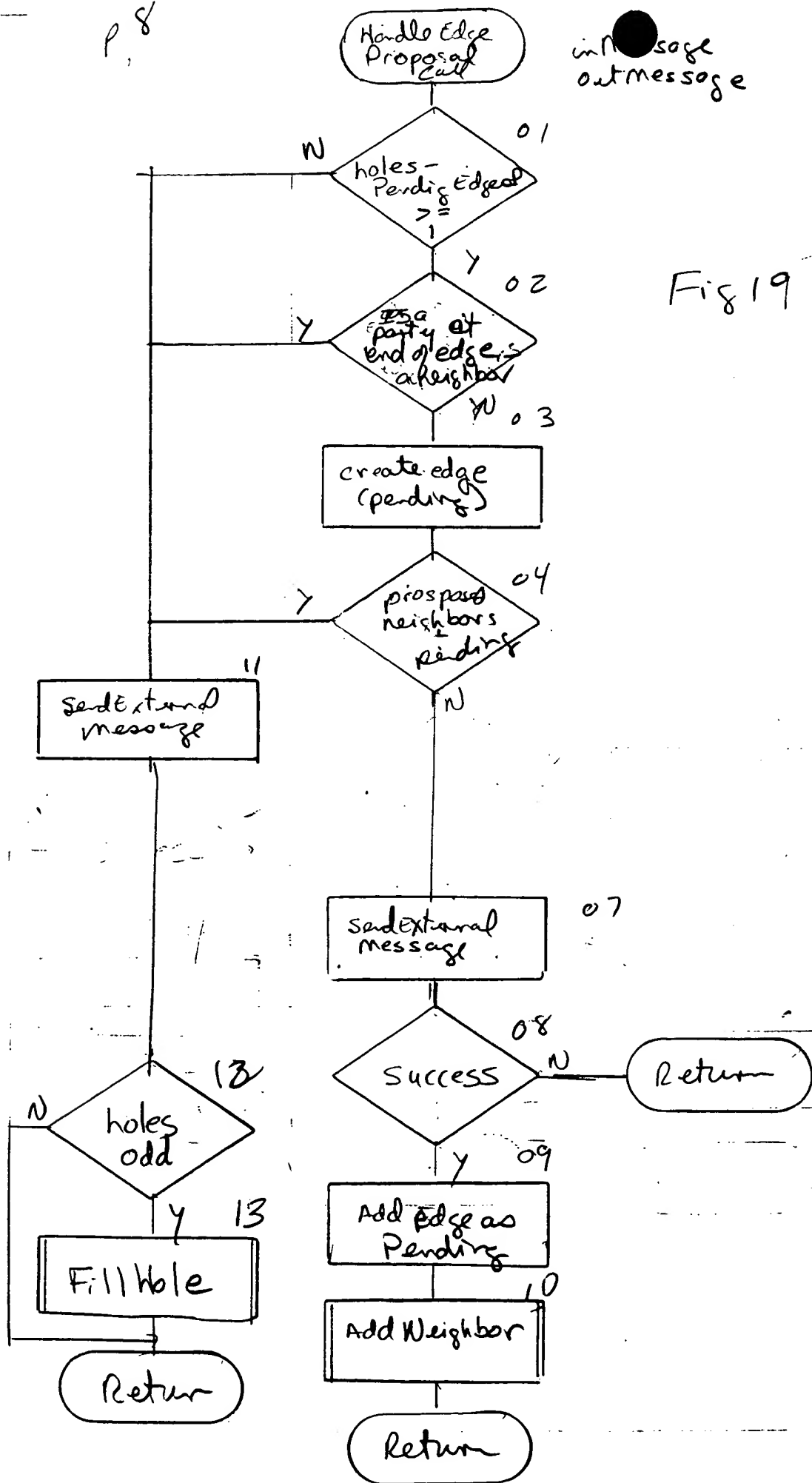
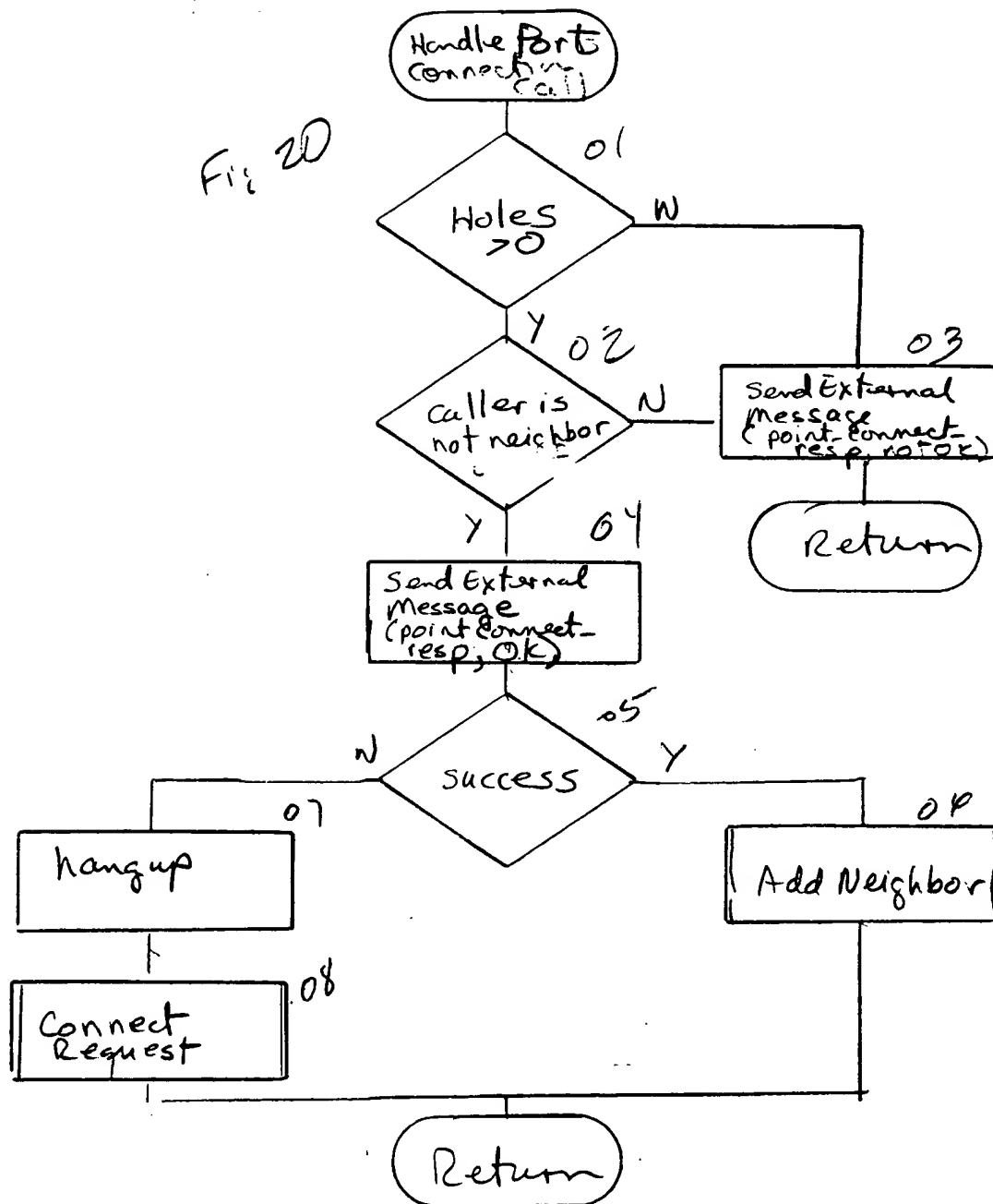


Fig 19

Fig 20



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9

Internal  
Dispatcher

(neighbor)

01  
Receive  
Internal  
message

02  
Assess  
Diameter

03  
this  
process ==  
Originating

03A  
partially  
connected

03B  
insert message  
into pending  
connection Buffer

04  
type ==  
broadcast-  
stmt

05  
Handle Broadcast  
Msg

06  
type ==  
shutdown  
statement

07  
Handle  
shutdown  
stmt

09  
is  
message  
queue  
empty

12  
Receive Response  
( )

08  
Pending  
connection  
buffer  
full

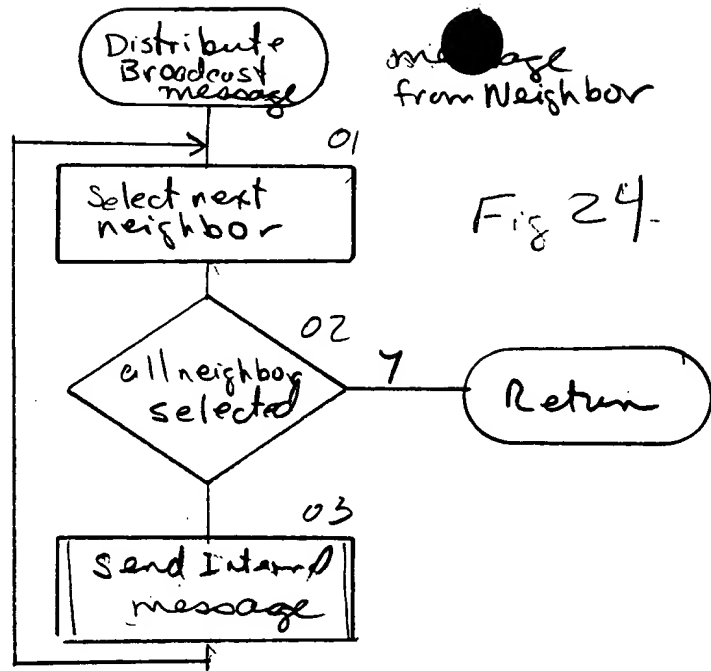
09  
Achieve  
Connection

Return

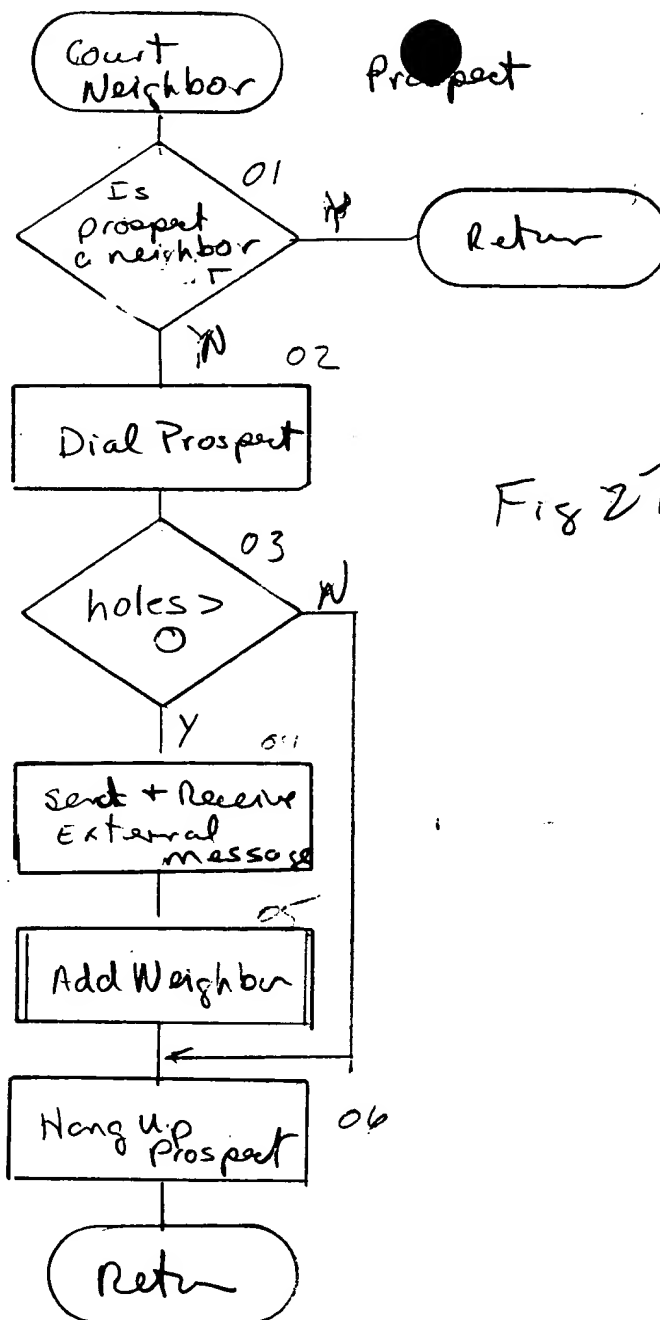
Fig 22

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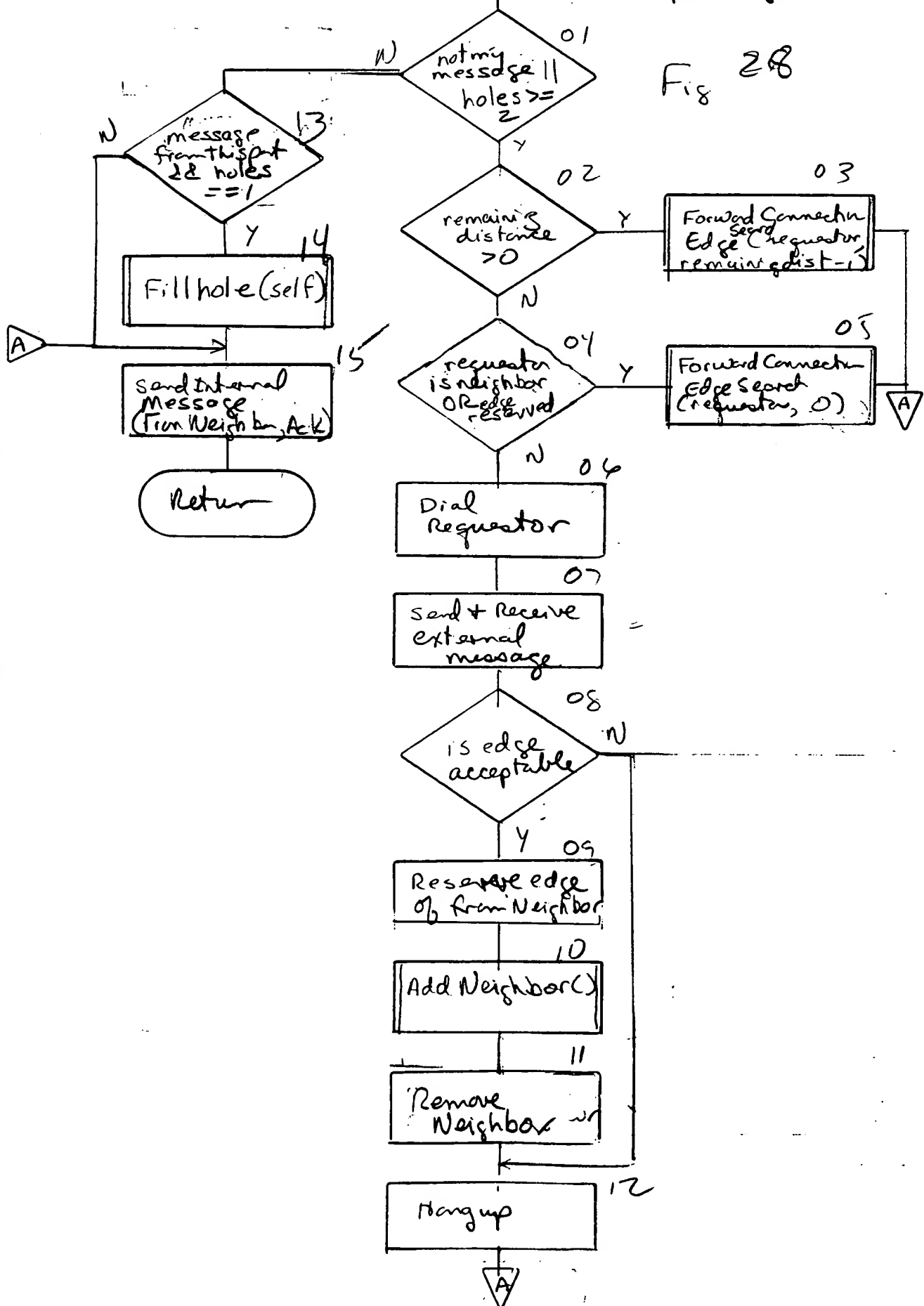


p14

Handle Connect  
Edge Search  
call

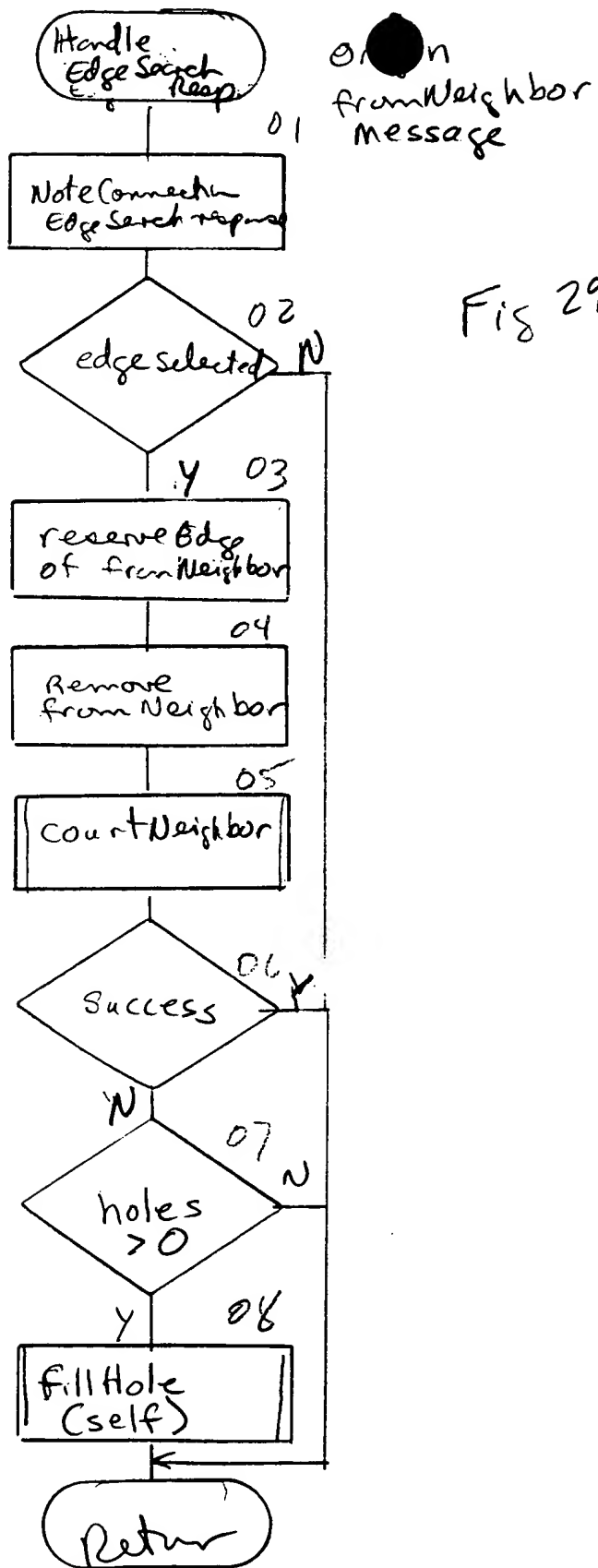
from Neighbor  
message

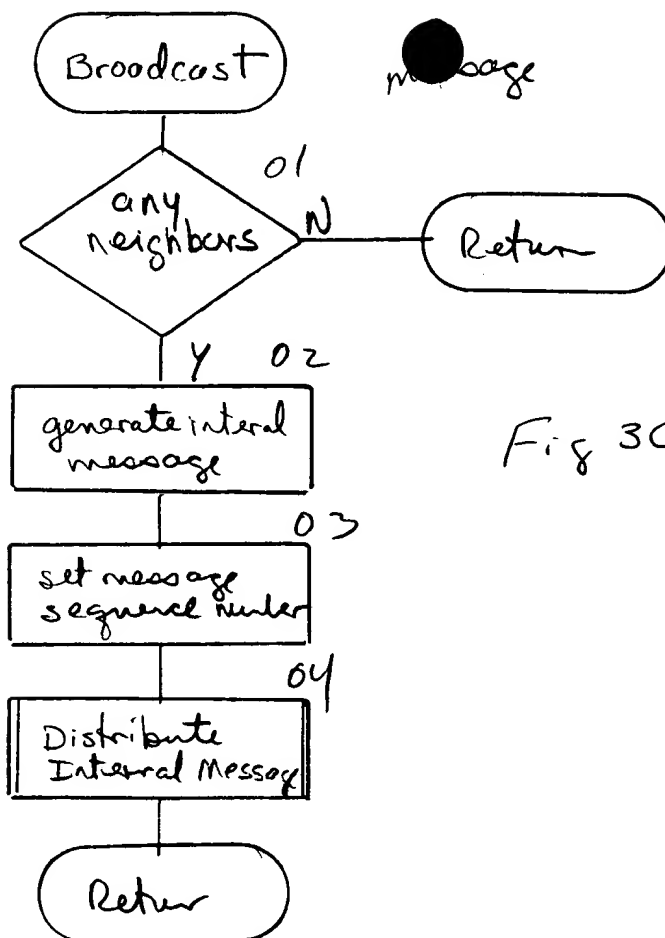
Fig 28



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```

graph TD
    Start([Acquire message]) -- 01 --> Pop[Pop message queue]
    Pop --> Decision{message retrieved}
    Decision -- Y --> ReturnTrue([Return TRUE])
    Decision -- N --> ReturnFalse([Return False])
  
```

Fig. 31

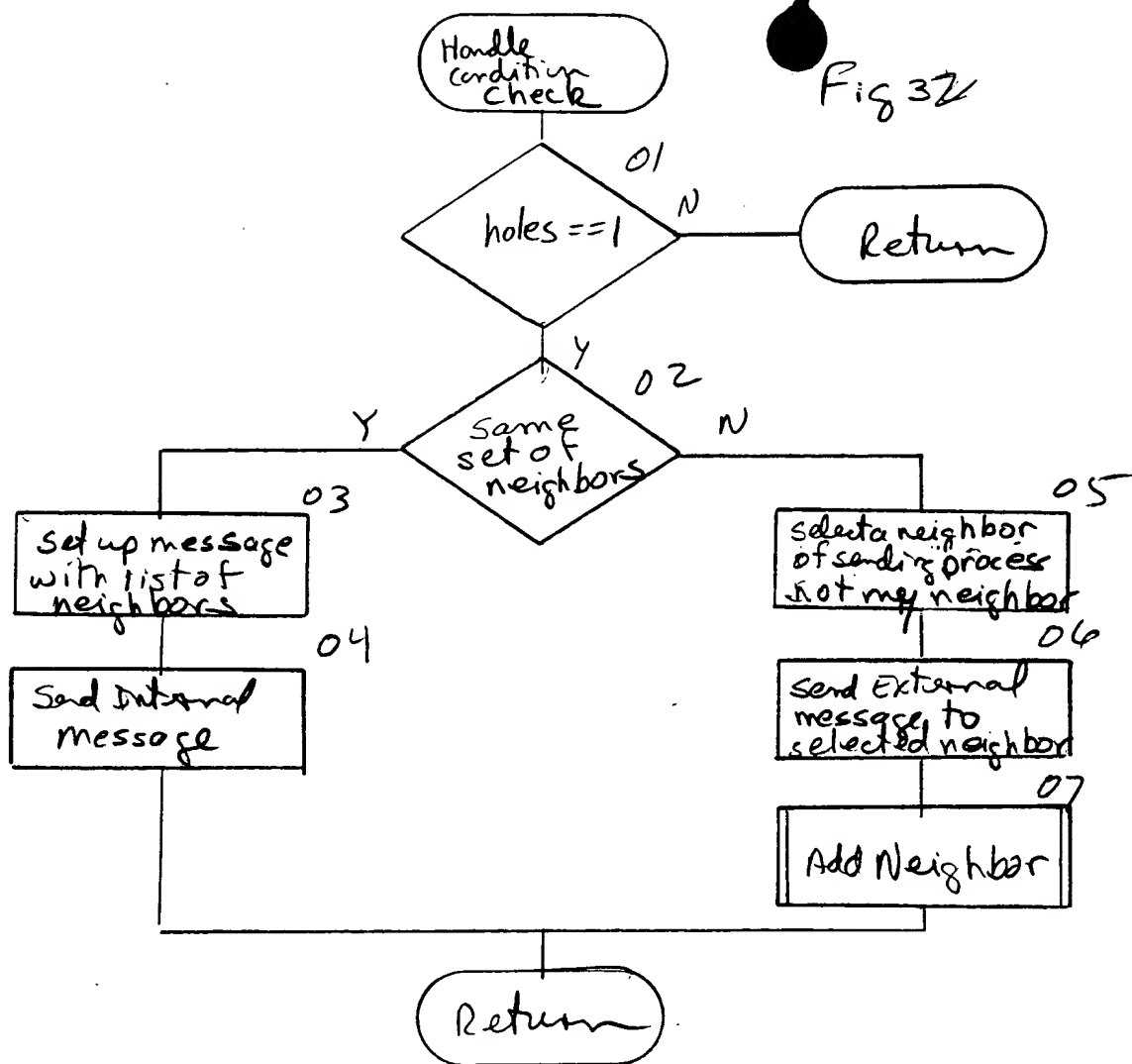
Fig 31

**Figure 6**

Figure 6 displays six histograms showing the distribution of the number of nodes per cluster for different values of  $\alpha$ . The x-axis represents the number of nodes per cluster, ranging from 0 to 10. The y-axis represents the frequency or count of clusters.

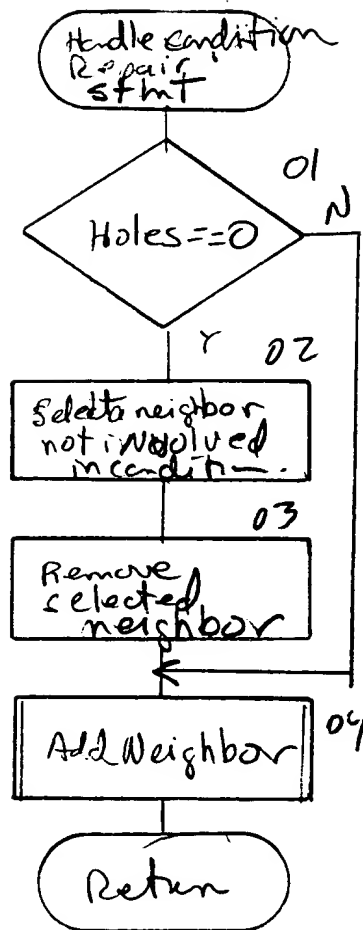
- (a)  $\alpha = 0.0$ : Shows a highly skewed distribution with a peak at 1 node per cluster.
- (b)  $\alpha = 0.1$ : Shows a slightly less skewed distribution compared to (a).
- (c)  $\alpha = 0.2$ : Shows a more uniform distribution across the range of nodes per cluster.
- (d)  $\alpha = 0.3$ : Shows a distribution that is becoming more spread out.
- (e)  $\alpha = 0.4$ : Shows a distribution that is becoming even more spread out.
- (f)  $\alpha = 0.5$ : Shows a relatively flat distribution across the range of nodes per cluster.

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